

ANNEX D-3

Pri 12 Apr 1996  
Eff. Date 12/01/97

U.S. Army Corps of Engineers  
PROJECT 9233B1: FISH PASSAGE (MARYLAND ACCESS) - MONTGOMERY COUNTY  
NOTCH FISH PASSAGE

TIME 13:08:50  
TITLE PAGE 1

FISH PASSAGE (MARYLAND ACCESS)  
MONTGOMERY COUNTY  
US ARMY CORPS OF ENGINEERS  
DACW-93-D-0065

Designed By: BEAVIN COMPANY  
Estimated By: RJW

Prepared By: BEAVIN COMPANY  
BALTIMORE, MARYLAND

Preparation Date: 04/15/96  
Effective Date of Pricing: 12/01/97  
Est Construction Time: 180 Days

Sales Tax: 5.00%

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NOTCH FISH PASSAGE  
\*\* PROJECT OWNER SUMMARY - Element \*\*

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	QUANTY	UOM	CONTRACT	CONTINGW	ESCALATN	TOTAL COST	UNIT
01 Lands & Damages							
01_07 Temporary Permits/Licenses/R.O.W							
01_07.03 By Gov't on behalf of LS			2,500	375	181	3,056	
TOTAL Temporary Permits/Licenses/R.O.W	1.00	EA	2,500	375	181	3,056	3056.13
01_15 Damage Payments							
01_15.02 By Local Sponsor	1.00	EA	10,000	1,500	725	12,225	12225
TOTAL Damage Payments	1.00	EA	10,000	1,500	725	12,225	12225
TOTAL Lands & Damages	1.00	EA	12,500	1,875	906	15,281	15281
06 Fish and Wildlife Facilities							
06_01 Fish Facilities at Dams							
06_01.44 Fishways and Fish Ladders							
06_01.44. A CAST-IN-PLACE CONCRETE	1.00	EA	56,877	14,219	4,479	75,575	75575
06_01.44. B CONCRETE DEMOLITION	1.00	EA	67,149	16,787	5,288	89,224	89224
06_01.44. C JOB	1.00	EA	94,259	23,565	7,423	125,247	125247
06_01.44. D GROUT BAGS	1.00	EA	28,311	7,078	2,230	37,619	37619
06_01.44. E COFFERDAM	1.00	EA	115,592	28,898	9,103	153,592	153592
06_01.44. F MOBILIZATION (MARYLAND SIDE)	1.00	EA	143,177	35,794	11,275	190,247	190247
06_01.44. G BOATING SAFETY STRUCTURE	1.00	EA	10,038	2,510	791	13,338	13338
TOTAL Fishways and Fish Ladders	1.00	EA	515,403	128,851	40,588	684,842	684842
TOTAL Fish Facilities at Dams	1.00	EA	515,403	128,851	40,588	684,842	684842
TOTAL Fish and Wildlife Facilities	1.00	EA	515,403	128,851	40,588	684,842	684842
30 Planning, Engineering and Design							
30_08 Plans and Specifications							
30_08.25 All Other							
30_08.25.AA PLANNING, ENGINEERING & DESIGN	1.00	JOB	102,000	15,300	10,674	127,974	127974
TOTAL All Other			102,000	15,300	10,674	127,974	

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	QUANTY UOM	CONTRACT	CONTINGN	ESCALATN	TOTAL COST	UNIT
TOTAL Plans and Specifications	1.00 EA	102,000	15,300	10,674	127,974	127974
TOTAL Planning, Engineering and Design	1.00 EA	102,000	15,300	10,674	127,974	127974
31 Construction Management (S&I)						
31_01 Const Management	1.00 EA	45,000	6,750	4,709	56,459	56459
TOTAL Construction Management (S&I)	1.00 EA	45,000	6,750	4,709	56,459	56459
TOTAL FISH PASSAGE (MARYLAND ACCESS)	1.00 EA	674,903	152,776	56,877	884,556	884556

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\*\* PROJECT INDIRECT SUMMARY - Element \*\*

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	QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT
01 Lands & Damages									
01_07 Temporary Permits/Licenses/R.O.W									
01_07.03 By Gov't on behalf of LS			2,500	0	0	0	0	2,500	
TOTAL Temporary Permits/Licenses/R.O	1.00	EA	2,500	0	0	0	0	2,500	2500.00
01_15 Damage Payments									
01_15.02 By Local Sponsor	1.00	EA	10,000	0	0	0	0	10,000	10000
TOTAL Damage Payments	1.00	EA	10,000	0	0	0	0	10,000	10000
TOTAL Lands & Damages	1.00	EA	12,500	0	0	0	0	12,500	12500
06 Fish and Wildlife Facilities									
06_01 Fish Facilities at Dams									
06_01.44 Fishways and Fish Ladders									
06_01.44. A CAST-IN-PLACE CONCRETE	1.00	EA	44,111	5,293	2,470	4,601	401	56,877	56877
06_01.44. B CONCRETE DEMOLITION	1.00	EA	52,078	6,249	2,916	5,432	473	67,149	67149
06_01.44. C JOB	1.00	EA	73,103	8,772	4,094	7,625	665	94,259	94259
06_01.44. D GROUT BAGS	1.00	EA	21,957	2,635	1,230	2,290	200	28,311	28311
06_01.44. E COPPERDAM	1.00	EA	89,648	10,758	5,020	9,351	815	115,592	115592
06_01.44. F MOBILIZATION (MARYLAND SIDE)	1.00	EA	111,042	13,325	6,218	11,583	1,009	143,177	143177
06_01.44. G BOATING SAFETY STRUCTURE	1.00	EA	7,785	934	436	812	71	10,038	10038
TOTAL Fishways and Fish Ladders	1.00	EA	399,723	47,967	22,384	41,696	3,634	515,403	515403
TOTAL Fish Facilities at Dams	1.00	EA	399,723	47,967	22,384	41,696	3,634	515,403	515403
TOTAL Fish and Wildlife Facilities	1.00	EA	399,723	47,967	22,384	41,696	3,634	515,403	515403
30 Planning, Engineering and Design									
30_08 Plans and Specifications									
30_08.25 All Other									
0_08.25.AA PLANNING, ENGINEERING & DESIGN	1.00	JOB	102,000	0	0	0	0	102,000	102000
TOTAL All Other			102,000	0	0	0	0	102,000	

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	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
01 Lands & Damages							
01_07 Temporary Permits/Licenses/R.O.W							
01_07.03 By Gov't on behalf of LS			2,500	0	0	2,500	
TOTAL Temporary Permits/Licenses/R.O.W	1.00	EA	2,500	0	0	2,500	2500.00
01_15 Damage Payments							
01_15.02 By Local Sponsor	1.00	EA	10,000	0	0	10,000	10000
TOTAL Damage Payments	1.00	EA	10,000	0	0	10,000	10000
TOTAL Lands & Damages	1.00	EA	12,500	0	0	12,500	12500
06 Fish and Wildlife Facilities							
06_01 Fish Facilities at Dams							
06_01.44 Fishways and Fish Ladders							
06_01.44. A CAST-IN-PLACE CONCRETE	1.00	EA	16,919	3,474	23,718	44,111	44111
06_01.44. B CONCRETE DEMOLITION	1.00	EA	34,392	12,746	4,939	52,078	52078
06_01.44. C JOB	1.00	EA	34,714	32,140	6,250	73,103	73103
06_01.44. D GROUT BAGS	1.00	EA	3,406	1,625	16,926	21,957	21957
06_01.44. E COPPERDAM	1.00	EA	26,352	4,636	58,660	89,648	89648
06_01.44. F MOBILIZATION (MARYLAND SIDE)	1.00	EA	36,943	32,826	41,273	111,042	111042
06_01.44. G BOATING SAFETY STRUCTURE	1.00	EA	1,109	13	6,663	7,785	7785.13
TOTAL Fishways and Fish Ladders	1.00	EA	153,835	87,461	158,428	399,723	399723
TOTAL Fish Facilities at Dams	1.00	EA	153,835	87,461	158,428	399,723	399723
TOTAL Fish and Wildlife Facilities	1.00	EA	153,835	87,461	158,428	399,723	399723
30 Planning, Engineering and Design							
30_08 Plans and Specifications							
30_08.25 All Other							
30_08.25.AA PLANNING, ENGINEERING & DESIGN	1.00	JOB	102,000	0	0	102,000	102000
TOTAL All Other			102,000	0	0	102,000	

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	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
TOTAL Plans and Specifications	1.00	EA	102,000	0	0	102,000	102000
TOTAL Planning, Engineering, and Design	1.00	EA	102,000	0	0	102,000	102000
31 Construction Management (S&I)							
31_01 Const Management	1.00	EA	45,000	0	0	45,000	45000
TOTAL Construction Management (S&I)	1.00	EA	45,000	0	0	45,000	45000
TOTAL FISH PASSAGE (MARYLAND ACCESS)	1.00	EA	313,335	87,461	158,428	559,223	559223
Field Office Overhead						47,967	
SUBTOTAL						607,190	
Home Office Overhead						22,384	
SUBTOTAL						629,574	
Profit						41,696	
SUBTOTAL						671,270	
Bond						3,634	
TOTAL INCL INDIRECTS						674,903	
Contingency						152,776	
SUBTOTAL						827,679	
Escalation to midpoint						56,877	
TOTAL INCL OWNER COSTS						884,556	



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\*\* DIVISION DIRECT SUMMARY \*\*

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	LABOR	EQUIPMNT	MATERIAL	TOTAL COST
<<< No Division ID >>>	267,386	68,380	113,568	449,334
02 Site Work	42,250	19,011	39,152	100,413
03 Concrete	2,589	57	935	3,581
05 Metals	1,109	13	4,773	5,895
	313,335	87,461	158,428	559,223

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01. Lands & Damages

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01\_07. Temporary Permits/Licenses/R.O.W

QUANTY UOM LABOR EQUIPMNT MATERIAL TOTAL COST

01\_07.03. By Gov't on behalf of LS

USR 01 < > By Gov't on behalf of LS

2500.00	0.00	0.00	2500.00
1.00 EA 2,500	0	0	2,500

TOTAL By Gov't on behalf of LS

2,500	0	0	2,500
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TOTAL Temporary Permits/Licenses/R.O.W

2,500	0	0	2,500
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NOTICE FISH PASSAGE  
01. Lands & Damages

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01\_15. Damage Payments

QUANTITY UOM LABOR EQUIPMNT MATERIAL TOTAL COST

01\_15.02. By Local Sponsor

USR 01 < > By Local Sponsor. (LS)

	10000	0.00	0.00	10000.00
1.00 EA	10,000	0	0	10,000

TOTAL By Local Sponsor

10,000	0	0	10,000
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TOTAL Damage Payments

10,000	0	0	10,000
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TOTAL Lands & Damages

12,500	0	0	12,500
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 06. Fish and Wildlife Facilities

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06\_01. Fish Facilities at Dams

QUANTITY UOM LABOR EQUIPMENT MATERIAL TOTAL COST

06\_01.44. Fishways and Fish Ladders

06\_01.44. A. CAST-IN-PLACE CONCRETE

USR 06 < > 3500 psi CONCRETE 46.50 1.65 92.40 140.55  
 High cost due to small quantity 181.00 CY 8,417 299 16,724 25,440  
 & difficulty in placement.

USR 06 < > WEIRS 6000psi GRANITE AGG. CONC. 235.00 77.00 171.15 483.15  
 High cost due to small quantity 12.00 CY 2,820 924 2,054 5,798  
 & difficulty in placement.

M 06 < > Epoxy Bonding Agent 7.44 0.06 52.50 60.00  
 20.00 GAL 149 1 1,050 1,200

USR 06 < > ROCK BOLTS 1 1/4" X 24' 100.00 80.00 210.00 390.00  
 Price Quote: 6.00 EA 600 480 1,260 2,340  
 Williams Spin Lock  
 (619) 578-4376  
 Joe Alter

02415 1200 Super High-Tensile Anchors, Astm A-108  
 02415 1270 1-1/4 In (3.175Cm) Dia.

CIV 06 <02415 1271 > 1-1/4"(3.2cm) Rock Bolt,5'(1.5M) 12.79 0.08 60.53 73.40  
 28.00 EA 358 2 1,695 2,055

02415 2100 Drill Holes For Rock Bolts  
 02415 2150 1 In (2.54Cm) Dia Bolt,2 In (5.08Cm) Hole

CIV 06 <02415 2151 > Drill 2"D x 5' Long Hole 41.83 36.02 0.00 77.84  
 For 1 1/4" Dia Rock Bolt 28.00 EA 1,171 1,008 0 2,180

CIV 06 <02415 2154 > Drill 2"D x 24' Long Hole 135.94 117.05 0.00 252.99  
 For 1 1/4" Dia Rock Bolt 6.00 EA 816 702 0 1,518

03110 1600 Slab Forms  
 03110 1610 Slab On Grade Edge Forms (4 Uses)

MIL 06 <03110 1613 > Slab on Gr Edge Forms, Over 12"H 2.31 0.06 0.53 2.90  
 (Over 31cm)High, Based on 4 Uses 936.00 SF 2,166 53 491 2,710

03210 0000 Reinforcing Steel  
 03210 1000 Footings And Slabs

MIL 06 <03210 1004 > Gr 60 Resteel,Ftgs & Slabs,#7-Up 362.34 2.82 386.40 751.56  
 0.90 TON 326 3 348 676

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06\_01. Fish Facilities at Dams

03210 0000 Reinforcing Steel

03210 3000 Straight Dowels 24 In (61cm) Long

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST
MIL 06 <03210 3001 > Straight Dowels, 1" Dia x 24" Long			0.68	0.01	1.41	2.10
(25mm) Dia x (61cm) Long	34.00	EA	23	0	48	71

03300 0000 Cast-In-Place Concrete

03305 0000 Concrete Curing

MIL 06 <03305 1001 > Conc Curing, 7.5 Oz Burlap, 1 Use			7.44	0.06	4.78	12.27
	10.00	CSP	74	1	48	123

TOTAL CAST-IN-PLACE CONCRETE

16,919	3,474	23,718	44,111
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06\_01.44. B. CONCRETE DEMOLITION

USR 06 <	> Rubbish Hauling, Machine Load		3.18	7.90	0.00	11.08
	10 mile trip haul	416.00	1,323	3,286	0	4,609
	NOTE: Quantities include 30% swell factor of materials.					

USR 06 <	> Saw Cut Mesh Reinf Concrete Slab		2.26	0.52	0.36	3.14
		1600.00	LP	3,616	832	571
						5,019

USR 06 <	> Disposal of materials		0.00	0.00	10.50	10.50
	Dumping charges	416.00	CY	0	0	4,368
						4,368

USR 06 <	> Surveying the grout bags		700.00	0.00	0.00	700.00
	3 man crew	2.00	DAY	1,400	0	0
						1,400

USR 06 <	> Shopdrawings for a proposed		25.00	0.00	0.00	25.00
	grout bag replacement plan	40.00	HR	1,000	0	0
						1,000

02112 1000 Miscellaneous Removals

02112 1200 Concrete Pavement

MIL 06 <02112 1203 > Demolition of Concrete			84.54	26.96	0.00	111.50
	320.00	CY	27,053	8,628	0	35,681

TOTAL CONCRETE DEMOLITION

34,392	12,746	4,939	52,078
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06\_01.44. C. JOB

The following equipment costs are assigned to the job, because they apply to more than one of the cost items.

MIL 06 <	> Equip. oper. (oiler)		20.03	0.00	0.00	20.03
	for Floating Crane	320.00	HR	6,410	0	0
						6,410

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 06. Fish and Wildlife Facilities

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06_01. Fish Facilities at Dams			QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST
USR 06 <	> Crane 25 tons, 1 C.Y. 12' radius	320.00 HR	0.00 0	65.00 20,800	19.53 6,250	84.53 27,050	
MIL 06 <	> Outside Equip. Op. Medium for Floating Crane	320.00 HR	27.25 8,720	0.00 0	0.00 0	27.25 8,720	
L MIL 06 <	> 150 To 300hp Tug Boat without crew	320.00 HR	0.00 0	22.45 7,184	0.00 0	22.45 7,184	
MIL 06 <	> 100 To 300 Ton Barge	320.00 HR	0.00 0	12.99 4,156	0.00 0	12.99 4,156	
USR 06 <	> Tugboat Crew 1 Captain 2 Tugboat Hands	320.00 HR	61.20 19,584	0.00 0	0.00 0	61.20 19,584	
TOTAL JOB				34,714	32,140	6,250	73,103
06_01.44. D. GROUT BAGS							
USR 06 <	> Grout Conc Bag	260.00 CY	13.10 3,406	6.25 1,625	65.10 16,926	84.45 21,957	
TOTAL GROUT BAGS				3,406	1,625	16,926	21,957
06_01.44. E. COFFERDAM							
USR 06 <	> Stone Filled Gabions 6' long, 3' wide & 3' high	500.00 BA	20.50 10,250	9.25 4,625	110.25 55,125	140.00 70,000	
USR 06 <	> Placement of Gabions	500.00 BA	20.00 10,000	0.00 0	0.00 0	20.00 10,000	
USR 06 <	> Removal of Gabions	500.00 BA	10.00 5,000	0.00 0	0.00 0	10.00 5,000	
02533 1000 Sump Hole Construction Includes Excavation And							
02533 1010 Pumps - Submersible, Starter, Level Control -							
MIL 06 <02533 1011 >	Submersible Pump, 60 GPM, 20' Head, 2"(5.1cm) Discharge	2.00 EA	103.63 207	1.31 3	997.50 1,995	1102.45 2,205	
02545 0000 Membrane Lining Systems							
02545 1000 High Density Polyethylene Liners For Surface							
CIV 06 <02545 1005 >	80 Mil HD Polyethylene Liners	3120.00 SF	0.29 895	0.00 8	0.49 1,540	0.78 2,443	

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06\_01. Fish Facilities at Dams

TOTAL COPPERDAM 26,352 4,636 58,660 89,648

06\_01.44. F. MOBILIZATION (MARYLAND SIDE)

L	USR 06 <	> BARGE/TUGBOAT MOBILIZATION & Demobilization	2.00 EA	6296.00 12,592	9759.00 19,518	0.00 0	16055.00 32,110
L	USR 06 <	> CRANE MOBILIZATION & Demobilization	2.00 EA	2650.00 5,300	2325.00 4,650	0.00 0	4975.00 9,950
	USR 06 <	> Traffic Control Cones & Barriers	1.00 EA	500.00 500	0.00 0	2100.00 2,100	2600.00 2,600
	USR 06 <	> Dock & Loading Area	1.00 EA	0.00 0	0.00 0	5250.00 5,250	5250.00 5,250
	USR 06 <	> Removal of Rip Rap Note: Assume salvage value of rip rap is equal to disposal fee.	1360.00 CY	5.00 6,800	0.00 0	0.00 0	5.00 6,800

02102 0000 Clearing And Grubbing  
 02102 1100 Cut Trees - Grub Roots And Stump

MIL 06 <02102 1101 >	Clear and Grub Lt Trees to 6' D Dia, Cut and Chip	0.87 ACR	1480.57 1,288	931.42 810	0.00 0	2411.99 2,098
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02261 0000 Rip Rap  
 02261 1000 Random - Filter Stone Dumped From Trucks -

M MIL 06 <02261 1002 >	Rip Rap, Random Pieces, Dumped from Truck for temporary crossing of canal	1360.00 CY	2.78 3,781	1.54 2,098	10.61 14,423	14.93 20,302
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02264 0000 Brosion Control  
 02264 2000 Vinyl Fence

MIL 06 <02264 2001 >	Silt Fences, Vinyl, 3' High	2190.00 LP	0.91 1,991	0.01 15	0.24 529	1.16 2,536
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02611 2000 Roadway Base Courses  
 02611 2100 Grade And Compact Base Courses Includes Grader,

MIL 06 <02611 2113 >	Crushed Base 9 In Depth includes grading For Access Road	3650.00 SY	1.28 4,690	1.57 5,735	5.20 18,971	8.05 29,396
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TOTAL MOBILIZATION (MARYLAND SIDE) 36,943 32,826 41,273 111,042

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 PROJECT 9233E1: FISH PASSAGE (MARYLAND ACCESS) - MONTGOMERY COUNTY  
 NOTCH FISH PASSAGE  
 06. Fish and Wildlife Facilities

TIME 13:08:50  
 DETAIL PAGE 7

06\_01. Fish Facilities at Dams

QUANTY UOM LABOR EQUIPMNT MATERIAL TOTAL COST

06\_01.44. G. BOATING SAFETY STRUCTURE

USR 06 <	> BFOYS	0.00	0.00	210.00	210.00
	9.00 EA	0	0	1,890	1,890
05120 0000	Structural Steel				
05120 2100	Column Base Plates				
MIL 06 <05120 2104 >	BUOY ANCHORS	135.44	1.60	1386.00	1523.04
	3.44 TON	466	6	4,768	5,239
05180 0000	Steel Chain And Accessories				
05180 1300	Alloy Steel Chain, Self Colored, Cut Length				
CIV 06 <05180 1302 >	3/8" Alloy Steel Chain,Cut Lgth	338.60	4.00	2.59	345.20
	Self Colored, w/Accessories	1.90 CLF	643	8	5
TOTAL BOATING SAFETY STRUCTURE		1,109	13	6,663	7,785
TOTAL Fishways and Fish Ladders		153,835	87,461	158,428	399,723
TOTAL Fish Facilities at Dams		153,835	87,461	158,428	399,723
TOTAL Fish and Wildlife Facilities		153,835	87,461	158,428	399,723



Fri 12 Apr 1996  
Bff. Date 12/01/97  
DETAILED ESTIMATE

U.S. Army Corps of Engineers  
PROJECT 9233B1: FISH PASSAGE (MARYLAND ACCESS) - MONTGOMERY COUNTY  
NOTCH FISH PASSAGE  
30. Planning, Engineering and Design

TIME 13:08:50  
DETAIL PAGE 8

30\_08. Plans and Specifications

QUANTITY UOM LABOR EQUIPMNT MATERIAL TOTAL COST

30\_08.25. All Other

TOTAL PLANNING, ENGINEERING & DESIGN	102,000	0	0	102,000
TOTAL All Other	102,000	0	0	102,000
TOTAL Plans and Specifications	102,000	0	0	102,000
TOTAL Planning, Engineering and Design	102,000	0	0	102,000

Fri 12 Apr 1996  
Eff. Date 12/01/97  
DETAILED ESTIMATE

U.S. Army Corps of Engineers  
PROJECT 9233B1: FISH PASSAGE (MARYLAND ACCESS) - MONTGOMERY COUNTY  
NOTCH FISH PASSAGE  
31. Construction Management (S&I)

TIME 13:08:50

DETAIL PAGE 9

31\_01. Const Management

QUANTITY UOM LABOR EQUIPMENT MATERIAL TOTAL COST

TOTAL Const Management	45,000	0	0	45,000
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TOTAL Constructor Management (S&I)	45,000	0	0	45,000
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TOTAL FISH PASSAGE (MARYLAND ACCESS)	313,335	87,461	158,428	559,223
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US Army Corps  
of Engineers  
Baltimore District

# **ANNEX E**

## **CORRESPONDENCE AND** **COORDINATION**

### ***LITTLE FALLS DAM*** ***FISH PASSAGE MODIFICATION***

***APRIL 1996***

## **Annex E**

### **Correspondence and Coordination**

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Little Falls Task Force MOA	E-2
EA Informational Letter	E-3
Project Factsheet	E-4
Significant Correspondence	E-5



**US Army Corps  
of Engineers**  
Baltimore District

**ANNEX E-1**

**13 March 1996**

# **Public Notice**

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**LITTLE FALLS DAM  
MONTGOMERY COUNTY, MARYLAND  
MODIFICATION FOR ANADROMOUS FISH PASSAGE**

**ALL INTERESTED PARTIES:**

In accordance with the National Environmental Policy Act (NEPA) and Section 404 of the Clean Water Act, the Baltimore District, U. S. Army Corps of Engineers, is conducting public coordination regarding the proposed modification to the Little Falls Dam in the Potomac River, Montgomery County, Maryland. The dam is approximately 1400 feet long and is used to divert water from the Potomac River into the Little Falls pumping station which supplies potable water to the Washington D. C. area. Since its construction in 1959, the Little Falls Dam has been owned and operated by the Corps of Engineers' Washington Aqueduct. Along with the construction of the dam, a vertical slot fishway was built at Snake Island to allow for the passage of anadromous fish. The fishway was never successful. It was monitored for four years, after which time, operation and maintenance ceased. The purpose of this project is to modify the existing dam to allow for the passage of anadromous fish to historic spawning, rearing, and feeding areas upstream of the Little Falls Dam.

Proposed project activities consist of constructing a labyrinth weir notch fish passage. The notch will be 24 feet wide with the centerline 75 feet from the abutment at the Virginia shoreline. The notch will be cut down 4.4 feet to elevation 35.0 (above mean sea level) with a length of 28.5 feet. Three labyrinth weirs will be placed along the notch in order to obtain desirable water velocities. Adhering to the water supply requirements of the Washington Aqueduct, and maintaining the structural integrity of the C & O Canal rubble dam were constraints included in the technical design criteria for the proposed fish passage.

Design and construction of the project is being coordinated with Maryland Department of Natural Resources, the Little Falls Task Force, and other concerned resource agencies, including the U. S. Fish and Wildlife Service, Interstate Commission on the Potomac River Basin, U. S. Environmental Protection Agency, National Marine Fisheries Service, National Park Service, National Biological Survey, National Fish and Wildlife Foundation, Virginia Department of Game and Inland Fisheries, the District of Columbia Environmental Regulatory Administration, and the Potomac River Fisheries Commission.

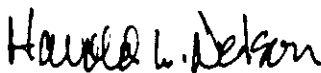
The decision to implement these actions will be based on an evaluation of the probable impact of the proposed activities on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit that may reasonably be expected to accrue from the proposal will be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal, including the cumulative effects thereof, will be considered; among these factors are conservation, economics, aesthetics, general environmental concerns, cultural values, fish and wildlife values, flood hazards, land use, recreation, water supply and conservation, water quality, safety, and the general needs and welfare of the people.

The Project Modification Report (PMR), which includes an integrated Environmental Assessment (EA) and a draft Finding of No Significant Impact (FONSI), is available for review. The PMR includes an evaluation of the impact of the proposed project on waters of the United States which was performed pursuant to guidelines promulgated by the Administrator of the Environmental Protection Agency under authority of Section 404 of the Clean Water Act. The Section 404(b)(1) evaluation and other preliminary analyses indicate that the proposed project will result in an overall positive environmental influence with no significant adverse impacts on the aquatic ecosystem, or the recreational, aesthetic, and economic values of the waterway. The proposed modification actions conform to the conditions of Nationwide Permits and appropriate state conditions of which the State of Maryland grants water quality certification. The Maryland Department of the Environment has issued Water Quality Certification (WQC) for the Nationwide Permits required for the proposed work, therefore and Individual Water Quality Certification is not required. Any comments relating to water quality concerns should be forwarded to the Maryland Department of the Environment, Standards and Certification, 2500 Broening Highway, Baltimore, Maryland 21224, within 30 days of the date of this notice.

In accordance with NEPA and the Clean Water Act, the Corps of Engineers is soliciting comments from the public; Federal, state and local agencies and officials, and other interested parties in order to consider and evaluate the impacts. Any comments received will be considered by the Corps of Engineers in the decision to implement the proposed project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments regarding the modification to the dam will be incorporated into the integrated EA pursuant to NEPA procedures. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. This public notice is being distributed to organizations and individuals known to have an interest in this project. Please communicate the foregoing information to any other organizations or individuals with an interest in this matter.

Any person who has an interest in the proposed project may make comments and/or request a public hearing. Comments must clearly set forth the interest which may be adversely affected by this activity and the manner in which the interest may be adversely affected. Written comments and requests must be submitted within 30 days of the date of this notice to: Baltimore District, U.S. Army Corps of Engineers, ATTN: CENAB-PL-PR, Ms. Erika Hieber, P.O. Box 1715, Baltimore, Maryland 21203-1715 (Internet address: erika.j.hieber@cenabpl.nab.usace.army.mil).

FOR THE COMMANDER:

*for*   
DR. JAMES F. JOHNSON  
Chief, Planning Division

Date: 13 March 1996

Baltimore District, Corps of Engineers  
Planning Division  
Post Office Box 1715  
Baltimore, Maryland 21203-1715

6 Mar 1996

Little Falls Resource List

\* \* \* CONGRESSIONAL INTERESTS \* \* \* - UNITED STATES SENATORS

15070 011 SARBANES D MD R  
MR. CHARLES STEE  
PROJECTS DIRECTOR TO SENATOR SARBANES  
309 HART SENATE OFFICE BUILDING  
WASHINGTON, DC 20510-2002  
(202) 224-4524 FAX (202) 224-1651

\* \* \* FEDERAL AGENCIES \* \* \*

38234 030 R  
MR. ED PENDELTON  
NATIONAL BIOLOGICAL SURVEY  
NATIONAL FISHERIES RESEARCH CENTER  
BOX 500  
KEARNEYVILLE, WV 25430

39152 030 USDCNOAA R  
TODD STILES  
CHESAPEAKE BAY OFFICE  
SUITE 107A  
410 SEVERN AVENUE  
ANNAPOLIS, MD 21403

15490 030 USDIPWS R  
MR. STEVE FUNDERBURK  
US FISH AND WILDLIFE SERVICE  
CHESAPEAKE BAY FIELD OFFICE  
177 ADMIRAL COCHRANE DRIVE  
SUITE 535  
ANNAPOLIS, MD 21401  
(410) 573-4555

38220 030 USEPA R  
MS. CARIN BISLAND  
U.S. ENVIRONMENTAL PROTECTION AGENCY  
CHESAPEAKE BAY PROGRAM OFFICE  
410 SEVERN AVENUE  
ANNAPOLIS, MD 21403

18374 030 CENAB-WA R  
MR. DOUG PICKERING  
ACTING ASSISTANT CHIEF  
U.S. ARMY CORPS OF ENGINEERS  
WASHINGTON AQUEDUCT DIVISION  
5900 MAC ARTHUR BOULEVARD, NORTHWEST  
WASHINGTON, DC 20315-0220

18372 030 USDIPWS R  
MR. RICHARD QUINN  
U.S. DEPARTMENT OF THE INTERIOR  
FISH AND WILDLIFE SERVICE  
1 GATEWAY CENTER  
NEWTON CORNER, MA 02158

39142 030 USDIPWS R  
MR. MICHAEL C. ODOM  
ASSISTANT PROJECT LEADER  
FISH AND WILDLIFE SERVICE  
VIRGINIA FISHERIES COORDINATOR  
11110 KIMAGES ROAD  
CHARLES CITY, VA 23030-9649  
(000) 000-0000

38219 030 USFWS R  
MR. ALBERT J. SPELLS  
U.S. FISH AND WILDLIFE SERVICE  
VIRGINIA FISHERIES COORDINATOR  
P.O. BOX 480  
WHITE MARSH, VA 23183

39147 030 USDCNMFS R  
MR. ALAN BLOTT  
NATIONAL MARINE FISHERIES SERVICE (NMFS)  
P.O. BOX 228  
KINGSTON, RI 02881

38233 030 USDIPWS R  
DR. MUFEEB ODEH  
CONTE FISHERIES RESEARCH LAB  
U.S. FISH AND WILDLIFE SERVICE  
P.O. BOX 796  
TURNERS FALLS, MA 01376

18086 030 USDINPS R  
MR. ROBERT STANTON  
REGIONAL DIRECTOR  
NATIONAL CAPITAL REGION  
NATIONAL PARK SERVICE  
1100 OHIO DRIVE, SW  
WASHINGTON, DC 20242  
(202) 619-7005

39148 030 WESHS-L R  
MR. JOHN GEORGE  
ARMY CORPS OF ENGINEERS  
ATTN: WESHS-L  
WATERWAYS EXPERIMENT SECTION  
3909 HALLS FERRY ROAD  
VICKSBURG, MS 39180

\* \* \* STATE AGENCIES \* \* \*

\* \* \* STATE AGENCIES \* \* \*

18371 040 DC ERA R  
MR. JON SIEMKEN  
ENVIRONMENTAL REGULATION ADMINISTRATION  
WATER RESOURCES MANAGEMENT DIVISION  
FISHERIES MANAGEMENT BRANCH  
2100 MARTIN LUTHER KING AVENUE  
WASHINGTON, DC 20020

18564 040 MD HIST TRU R  
MS. ELIZABETH J. COLE  
MARYLAND HISTORICAL TRUST  
ADMINISTRATOR, ARCHEOLOGICAL SERVICES  
HISTORICAL & CULTURAL PROGRAMS DIVISION  
100 COMMUNITY PLACE  
CROWNSVILLE, MD 21032-2023  
(410) 514-7662 FAX (410) 987-4071

15306 040 MDDE R  
MR. J. L. HEARN  
DIRECTOR  
WATER MANAGEMENT ADMINISTRATION  
MARYLAND DEPARTMENT OF THE ENVIRONMENT  
2500 BROENING HIGHWAY  
BALTIMORE, MD 21224-6612  
(410) 631-3567

39272 040 MDDNR R  
MR. RAY C. DINTAMAN JR.  
DIRECTOR  
ENVIRONMENTAL REVIEW UNIT  
MARYLAND DEPARTMENT OF NATURAL RESOURCES  
TAMES STATE OFFICE BUILDING  
ANNAPOLIS, MD 21401-2397  
(410) 974-2788 FAX (410) 974-3770

15314 040 MDDNR R  
MS. VERNA E. HARRISON  
ASSISTANT SECRETARY  
CHESAPEAKE BAY AND WATERSHED PROGRAMS  
MARYLAND DEPARTMENT OF NATURAL RESOURCES  
TAMES STATE OFFICE BUILDING  
ANNAPOLIS, MD 21401  
(410) 974-2255 FAX (410) 974-5206

18362 040 MDDNR R  
MR. HOWARD KING  
RECREATION & COMMERCIAL FISHERIES  
CHESAPEAKE & COASTAL WATERSHED ADMIN.  
MARYLAND DEPARTMENT OF NATURAL RESOURCES  
TAMES STATE OFFICE BUILDING  
ANNAPOLIS, MD 21401  
(410) 974-3365 FAX (410) 974-2600

18520 040 MDDNR R  
MR. LARRY LEASHER  
MANAGER  
FISH PASSAGE PROGRAM  
MARYLAND DEPARTMENT OF NATURAL RESOURCES  
TAMES STATE OFFICE BUILDING, B-2  
ANNAPOLIS, MD 21401  
(410) 974-3365 FAX (410) 974-2603

38218 040 VADWIF R  
MR. PRICE SMITH  
FISHERIES BIOLOGIST DISTRICT SUPERVISOR  
VIRGINIA DEPARTMENT OF GAME AND  
INLAND FISHERIES  
ROUTE 8, BOX 1750  
ASHLAND, VA 23005  
(804) 752-5503

\* \* \* REGIONAL AGENCIES \* \* \*

17554 050 ICFRB R  
MR. JIM CUMMINS  
INTERSTATE COMMISSION ON THE  
POTOMAC RIVER BASIN  
SUITE 300  
6110 EXECUTIVE BOULEVARD  
ROCKVILLE, MD 20852  
(301) 984-1908 FAX (301) 984-5841

7892 050 POTOMAC RIV R  
MR. KIRBY A. CARPENTER  
EXECUTIVE SECRETARY  
POTOMAC RIVER FISHERIES COMMISSION  
P.O. BOX 9  
222 TAYLOR STREET  
COLONIAL BEACH, VA 22443  
(804) 224-7148 FAX (804) 224-2712

\* \* \* LOCAL AGENCIES \* \* \*

38206 061 MONTGOMERY R  
MR. DAN HARPER  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
MONTGOMERY COUNTY  
EXECUTIVE OFFICE BUILDING  
ROCKVILLE, MD 20850  
(301) 217-2438 FAX (301) 217-6318



Baltimore District, Corps of Engineers  
Planning Division  
Post Office Box 1715  
Baltimore, Maryland 21203-1715

6 Mar 1996

Little Falls

\* \* \* CONGRESSIONAL INTERESTS \* \* \* - UNITED STATES SENATORS

39234 011 MIKULSKI D MD M  
MR. MIKE MORRILL  
STATE DIRECTOR  
SENATOR BARBARA MIKULSKI  
UNITED STATES SENATE  
709 HART SENATE OFFICE BUILDING  
WASHINGTON, DC 20510-2003  
(202) 224-4654 FAX (202) 224-8858

15040 011 ROBB D VA M  
HONORABLE CHARLES S. ROBB  
UNITED STATES SENATE  
493 RUSSELL SENATE OFFICE BUILDING  
WASHINGTON, DC 20510-4603  
(202) 224-4024 FAX (202) 224-8689

12827 011 WARNER R VA M  
HONORABLE JOHN W. WARNER  
UNITED STATES SENATE  
225 RUSSELL SENATE OFFICE BUILDING  
WASHINGTON, DC 20510-4601  
(202) 224-2023 FAX (202) 224-6295

\* \* \* CONGRESSIONAL INTERESTS \* \* \* - UNITED STATES REPRESENTATIVES

12869 012 MORTON D DC M  
HONORABLE ELEANOR HOLMES MORTON  
HOUSE OF REPRESENTATIVES  
1415 LONGWORTH HOUSE OFFICE BUILDING  
WASHINGTON, DC 20515-5101  
(202) 225-8050 FAX (202) 225-3002

15065 012 HOYER D MD05 M  
MR. JOHN BERRY  
STAFF ASST. TO CONGRESSMAN HOYER  
1513 LONGWORTH HOUSE OFFICE BLDG.  
WASHINGTON, DC 20515-2005  
(202) 225-4131 FAX (202) 225-4300

15046 012 MORELLA R MD08 M  
HONORABLE CONSTANCE A. MORELLA  
HOUSE OF REPRESENTATIVES  
223 CANNON HOUSE OFFICE BUILDING  
WASHINGTON, DC 20515-2008  
(202) 225-5341 FAX (202) 225-1389

4 012 MORAN R VA08 M  
ABLE JAMES P. MORAN  
HOUSE OF REPRESENTATIVES  
430 CANNON HOUSE OFFICE BUILDING  
WASHINGTON, DC 20515-4608  
(202) 255-4376 FAX (202) 225-0017

12883 012 WOLF R VA10 M  
HONORABLE FRANK R. WOLF  
HOUSE OF REPRESENTATIVES  
104 CANNON HOUSE OFFICE BUILDING  
WASHINGTON, DC 20515-4610  
(202) 225-5136 FAX (202) 225-0437

39146 012 DAVIS R VA11 M  
HONORABLE THOMAS M. DAVIS III  
HOUSE OF REPRESENTATIVES  
415 CANNON HOUSE OFFICE BUILDING  
WASHINGTON, DC 20515-4611  
(202) 225-1492

\* \* \* STATE INTERESTS \* \* \* - GOVERNORS

12889 021 GLENDENING D MD M  
HONORABLE PARRIS N. GLENDENING  
GOVERNOR OF MARYLAND  
STATE HOUSE  
ANNEAPOLIS, MD 21401  
(410) 974-3901

12891 021 ALLEN D VA M  
HONORABLE GEORGE ALLEN  
GOVERNOR, COMMONWEALTH OF VIRGINIA  
CAPITOL BUILDING  
THIRD FLOOR  
STATE CAPITOL  
RICHMOND, VA 23219  
(804) 786-2211 FAX (804) 786-3985

\* \* \* STATE INTERESTS \* \* \* - STATE SENATORS

15719 022 ROESSER R MD15 M  
HONORABLE JEAN W. ROESSER  
SENATOR  
MARYLAND GENERAL ASSEMBLY  
JAMES SENATE OFFICE BUILDING  
ANNEAPOLIS, MD 21401  
841-3169

16658 022 HOLLAND D VA31 M  
HONORABLE EDWARD M. HOLLAND  
SENATOR  
VIRGINIA GENERAL ASSEMBLY  
STATE CAPITOL  
RICHMOND, VA 23219  
(804) 786-6882

16659 022 HOWELL D VA32 M  
HONORABLE JANET D. HOWELL II  
SENATOR  
VIRGINIA GENERAL ASSEMBLY  
STATE CAPITOL  
RICHMOND, VA 23219  
(804) 786-7187

\* \* \* STATE INTERESTS \* \* \* - STATE REPRESENTATIVES

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\* \* \* STATE INTERESTS \* \* \*

15720 023 LAVAY R MD15 M  
HONORABLE RICHARD LAVAY  
DELEGATE  
MARYLAND GENERAL ASSEMBLY  
HOUSE OFFICE BUILDING  
ANNAPOLIS, MD 21401  
(410) 841-3090

16632 023 MAY R VA33 M  
HONORABLE JOE T. MAY  
DELEGATE  
VIRGINIA GENERAL ASSEMBLY  
STATE CAPITOL  
RICHMOND, VA 23219  
(804) 786-6993

15730 023 GENN D MD16 M  
HONORABLE GILBERT J. GENN  
DELEGATE  
MARYLAND GENERAL ASSEMBLY  
HOUSE OFFICE BUILDING  
ANNAPOLIS, MD 21401  
(410) 841-3045

16633 023 CALLAHAN R VA34 M  
HONORABLE VINCENT F. CALLAHAN JR.  
DELEGATE  
VIRGINIA GENERAL ASSEMBLY  
P. O. BOX 1173  
MC LEAN, VA 22101  
(703) 356-6231

15731 023 KOPP D MD16 M  
HONORABLE NANCY K. KOPP  
DELEGATE  
MARYLAND GENERAL ASSEMBLY  
HOUSE OFFICE BUILDING  
ANNAPOLIS, MD 21401  
(410) 841-3019

\* \* \* FEDERAL AGENCIES \* \* \*

13244 030 CENAS-WA M  
MR. THOMAS P. JACOBUS  
CHIEF, WASHINGTON AQUEDUCT DIVISION  
US ARMY CORPS OF ENGINEERS  
5900 MAC ARTHUR BOULEVARD, NW  
WASHINGTON, DC 20315-0220  
(202) 764-2753 FAX (202) 764-0637

13313 030 USDA/NRCS M  
MR. JERI L. BERG PED  
STATE CONSERVATIONIST  
USDA NATURAL RESOURCES CONSERVATION SVC  
JOHN HANSON BUSINESS CENTER, SUITE 301  
339 BURCH'S FRONTAGE ROAD  
ANNAPOLIS, MD 21401-5534  
(410) 757-0861

5099 030 USDA/NRCS M  
DIR, SOIL CONSERVATION DISTRICT  
MONTGOMERY COUNTY  
101 MONROE STREET  
EXECUTIVE OFFICE BLDG, 5TH FLOOR  
ROCKVILLE, MD 20850-2589

6312 030 USDC/NMFS M  
MR. TIMOTHY E. GOODGER  
ASSISTANT COORDINATOR  
NATIONAL MARINE FISHERIES SERVICE, NOAA  
HABITAT & PROTECTED RESOURCES DIVISION  
904 SOUTH MORRIS STREET  
OXFORD, MD 21654-0279  
(410) 226-5771 FAX (410) 226-5417

15493 030 USDC/NOAA M  
MS. M. ELIZABETH GILLELAN  
CHIEF  
NOAA CHESAPEAKE BAY OFFICE  
NATIONAL MARINE FISHERIES SERVICE  
410 SEVERN AVENUE, SUITE 107A  
ANNAPOLIS, MD 21403-2524  
(410) 267-5660 FAX (410) 267-5666

18872 030 USDC/NOAA M  
MR. JOSHUA LOTT  
OFFICE OF OCEAN & COASTAL RESOURCE MGT.  
NATIONAL OCEAN SERVICE, NOAA  
11109 SSMC-4  
1315 EAST WEST HIGHWAY  
SILVER SPRING, MD 20910-3282  
(301) 713-3102 FAX (410) 713-4012

39141 030 USDI/FWS M  
MR. PETER BERGSTROM  
U.S. FISH AND WILDLIFE  
CHESAPEAKE BAY FIELD OFFICE  
177 ADMIRAL COCHRANE DRIVE  
ANNAPOLIS, MD 21401

13312 030 USDI/IS M  
MR. JAMES G. PETERS  
DISTRICT CHIEF HYDROLOGIST  
U.S. GEOLOGICAL SURVEY  
208 CARROLL BUILDING  
8600 LAMALLE ROAD  
TOWSON, MD 21286  
(410) 828-1335

14820 030 USDI/NPS M  
MR. JOHN G. PARSONS  
ASSOCIATE SUPERINTENDENT, LAND USE COORD  
NATIONAL CAPITAL REGION  
NATIONAL PARK SERVICE  
1100 OHIO DRIVE, S.W.  
WASHINGTON, DC 20242  
(202) 619-7025

13795 030 USDT/CG M  
CW2 EUGENE SIMBALKIN  
PORT SAFETY OFFICER  
U.S. COAST GUARD MARINE SAFETY OFFICE  
U.S. CUSTOM HOUSE  
40 SOUTH GAY STREET  
BALTIMORE, MD 21202-4022

39143 030 USEPA M  
MS. CARYN BOSCOE  
CRC/EPA  
CHESAPEAKE BAY PROGRAM OFFICE  
410 SEVERN AVENUE  
ANNAPOLIS, MD 21403

18375 030 USFWS M  
DR. HENRY BOOKE  
U.S. DEPARTMENT OF THE INTERIOR  
U.S. FISH AND WILDLIFE SERVICE  
ONE MIGRATORY WAY  
P.O. BOX 796  
TURNER FALLS, MA 01376

## \* \* \* FEDERAL AGENCIES \* \* \*

## \* \* \* STATE AGENCIES \* \* \*

18370 040 DC ERA MR. IRA PALMER ENVIRONMENTAL REGULATION ADMINISTRATION WATER RESOURCES MANAGEMENT DIVISION FISHERIES MANAGEMENT BRANCH 2100 MARTIN LUTHER KING AVENUE WASHINGTON, DC 20020	M	17511 040 DCDCEA MR. JAMES COLLIER DEPARTMENT OF CONSUMER & REGULAR AFFAIRS ENVIRONMENTAL REGULATION ADMINISTRATION 2100 MARTIN LUTHER KING AVENUE, SE SUITE 203 WASHINGTON, DC 20030	M	5969 040 MD MS. MARY J. ABRAMS CHIEF COMPREHENSIVE PLANNING MARYLAND OFFICE OF PLANNING 301 W. PRESTON STREET, ROOM 1101 BALTIMORE, MD 21201-2365 (410) 225-4562 FAX (301) 225-4480	M
15626 040 MDDE MR. GARY T. SETZER PROGRAM ADMINISTRATOR WETLANDS AND WATERWAYS PROGRAM WATER MGMT. ADMIN., MD. DEPT. OF THE ENV TANES STATE OFFICE BUILDING ANNAPOLIS, MD 21401 (410) 974-2236 FAX (410) 974-3907	M	16070 040 MDDE MR. PETER TIMSLEY DEPUTY DIRECTOR TECHNICAL AND REGULATORY SERVICES ADMIN. MARYLAND DEPARTMENT OF ENVIRONMENT 2500 BROENING HIGHWAY BALTIMORE, MD 21224-6612 (410) 631-3572 FAX (410) 631-3873	M	20106 040 MDDER MR. ROBERT M. DAVIS ASSOCIATE DIRECTOR MD DEPARTMENT OF NATURAL RESOURCES FRESHWATER FISHERIES 3 PERSHING STREET ROOM 107 CUMBERLAND, MD 21502 (301) 777-2349 FAX (301) 777-2029	M
12468 040 VADES MR. ADDISON E. SLAYTON JR. STATE COORDINATOR EMERGENCY SERVICES DEPARTMENT TURNER ROAD RICHMOND, VA 23225 (804) 674-2497 FAX (804) 674-2490	M	13963 040 VANR MS. BECKY NORTON DUNLOP SECRETARY NATURAL RESOURCES SECRETARIAT 733 NINTH STREET OFFICE BUILDING RICHMOND, VA 23219 (804) 786-0044 FAX (804) 371-8333	M	15463 040 VANRDEQ MR. GREGORY L. CLAYTON DIRECTOR, NORTHERN REGIONAL OFFICE DEPARTMENT OF ENVIRONMENTAL QUALITY NATURAL RESOURCES SECRETARIAT 1549 OLD BRIDGE ROAD, SUITE 108 WOODBRIIDGE, VA 22192 (703) 490-8922 FAX (703) 490-6773	M
15444 040 VDEQ MR. KEITH J. BUTTLEMAN DIRECTOR OFFICE OF PUBLIC AND INTERGOVERN AFFAIRS P.O. BOX 10009 VA DEPARTMENT OF ENVIRONMENTAL QUALITY RICHMOND, VA 23240 (804) 762-4150	M				
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7864 050 ICPRB MR. HERBERT M. SACHS EXECUTIVE DIRECTOR INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN 6110 EXECUTIVE BOULEVARD, SUITE 300 ROCKVILLE, MD 20852-3903 (301) 984-1908 FAX (301) 984-5841	M	15511 050 MWCOG MS. RUTH R. CRONE EXECUTIVE DIRECTOR METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS 777 NORTH CAPITOL STREET, NE, SUITE 300 WASHINGTON, DC 20002-4201 (202) 962-3200 FAX (202) 962-3201	M	15604 050 NCPC MR. REGINALD W. GRIFFITH EXECUTIVE DIRECTOR NATIONAL CAPITAL PLANNING COMMISSION 801 PENNSYLVANIA AVENUE, NW SUITE 301 WASHINGTON, DC 20576 (202) 724-0174	M

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8804 050 WSSC M  
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(301) 699-8000

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5237 061 ARLINGTON M  
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8931 061 FAIRFAX M  
MR. CHARLIE C. CHOWDER  
ENGINEER-DIRECTOR  
FAIRFAX COUNTY WATER AUTHORITY  
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8545 062 CUMBERLAND M  
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CITY HALL  
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14023 062 DC M  
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13757 062 DC M  
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WATER RESOURCE MANAGEMENT ADMIN  
DC DEPT OF ENVIRONMENTAL RESOURCES  
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12890 062 DC D M  
HONORABLE MARION BARRY JR.  
MAYOR  
DISTRICT OF COLUMBIA  
1 JUDICIARY SQUARE  
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(202) 727-1000 FAX (202) 727-6561

16103 062 DC M  
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OFFICE OF POLICY AND PLANNING  
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2000 14TH STREET, N.W., 6TH FLOOR  
WASHINGTON, DC 20009  
(202) 939-8115

16734 062 FALLS CHURCH M  
MR. RICHARD J. DURGIN  
PUBLIC WORKS DIRECTOR  
CITY OF FALLS CHURCH  
300 PARK AVENUE  
FALLS CHURCH, VA 22046-3301

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7033 071 BETHESDA M  
BETHESDA CHEVY CHASE ALMANAC  
9910 RIVER ROAD  
ROCKVILLE, MD 20854  
(301) 983-3350 FAX (301) 983-3923

7051 071 POST M  
ENVIRONMENTAL EDITOR  
WASHINGTON POST  
1150 15TH STREET, NW  
WASHINGTON, DC 20001

7005 071 SENTINEL M  
EDITOR  
MONTGOMERY COUNTY SENTINEL  
PO BOX 1272  
ROCKVILLE, MD 20850

\* \* \* PUBLIC MEDIA \* \* \*

3 071 SUN	M	19891 071 TIMES	M
EDITOR		ENVIRONMENTAL EDITOR	
ARLINGTON NORTHERN VIRGINIA SUN		WASHINGTON TIMES	
1227 NORTHE IVY STREET		3600 NEW YORK AVENUE, NORTHEAST	
ARLINGTON, VA 22201		WASHINGTON, DC 20002	
		(202) 636-3028 FAX (202) 269-3419	

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18106 081 DCLIBRARY	M	12233 081 MONTGOMERY	M	39149 081 UNIVMD	M
AQUISITIONS/PUBLIC INFORMATION OFFICE		LIBRARIAN		MR. CHARLES HOCUTT	
DISTRICT OF COLUMBIA PUBLIC LIBRARIES		DEPARTMENT OF PUBLIC LIBRARIES,		BIOLOGY DEPARTMENT	
901 G STREET, NW.		MONTGOMERY COUNTY		UNIVERSITY OF MARYLAND	
WASHINGTON, DC 20001		99 MARYLAND AVENUE		ENVIRONMENTAL SERVICES	
		ROCKVILLE, MD 20850		PRINCESS ANNE, MD 21853	

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19165 082 DC RES CEN	M	13970 082 UNIV DC	M	16170 082 UNIV MD	M
MS. JUTTA SCHNEIDER		DR. HARRIETTE PHELPS		DR. DENNIS L. TAYLOR	
D.C. WATER RESOURCES RESEARCH CENTER		UNIV OF THE DISTRICT OF COLUMBIA		HORN POINT ENVIRONMENTAL LABORATORIES	
BOX 5004		BIOLOGY DEPARTMENT		UNIVERSITY OF MARYLAND	
		BUILDING 44		P.O. BOX 775	
CONNECTICUT AVENUE		4200 CONNECTICUT AVENUE, N.W.		CAMBRIDGE, MD 21613	
WASHINGTON, DC 20008		WASHINGTON, DC 20008		(410) 228-9250	
		(202) 282-7364			

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9884 091 AUDUBON NAT	M	38214 091 NATIONAL FI	M	18099 091 NATIONAL TR	M
MR. NEAL FITZPATRICK		MR. WHITNEY FOSBERG		MR. RICHARD MOE	
CONSERVATION DIRECTOR		DIRECTOR, FISHERIES INITIATIVES		PRESIDENT	
AUDUBON NATURALIST SOCIETY		NATIONAL FISH AND WILDLIFE FOUNDATION		NATIONAL TRUST FOR HISTORICAL	
8940 JONES MILL ROAD		1120 CONNECTICUT AVENUE, NW		PRESERVATION	
CHEVY CHASE, MD 20815		SUITE 900		1785 MASSACHUSETTS AVE., NW.	
(301) 652-9188 FAX (301) 951-7179		WASHINGTON, DC 20036		WASHINGTON, DC 20036	
				(202) 673-4000	

19059 091 SIERRA CLUB	M	19058 091 WORLD WILD	M
MR. EDWARD B. EUKOSKI		MS. CONSTANCE HUNT	
SIERRA CLUB LEGAL DEFENSE FUND, INC		WORLD WILDLIFE FUND	
1531 P STREET, N.W.		1250 24TH STREET, N.W.	
SUITE 200		WASHINGTON, DC 20037	
WASHINGTON, DC 20005			
(202) 667-4500			

\* \* \* SPECIAL INTEREST GROUPS \* \* \* - STATE GROUPS

\* \* \* SPECIAL INTEREST GROUPS \* \* \* - STATE GROUPS

16665 092 CHESAPEAKE M  
MR. WILLIAM C. BAKER  
PRESIDENT  
CHESAPEAKE BAY FOUNDATION  
162 PRINCE GEORGE STREET  
ANNAPOLIS, MD 21401  
(410) 268-8816 FAX (410) 268-6687

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17481 093 POTOMAC RIV M  
MR. BURTON K. KUMMEROW  
CHAIRMAN  
POTOMAC RIVER BASIN CONSORTIUM  
REISS SCIENCE BUILDING, ROOM 406  
GEORGETOWN UNIVERSITY  
WASHINGTON, DC 20057  
(202) 687-2472 FAX (202) 687-5662

19258 093 SCHUELER M  
MR. THOMAS R. SCHUELER  
CENTER FOR WATERSHED PROTECTION  
8630 FENTON STREET  
SUITE 910  
SILVER SPRING, MD 20910-4201

38239 093 THE POTOMAC M  
MR. PAUL M. ROSA  
EXECUTIVE DIRECTOR  
THE POTOMAC CONSERVANCY  
4022 HUMMER ROAD  
ANNANDALE, VA 22003  
(703) 642-9880 FAX (703) 642-9881

\* \* \* SPECIAL INTEREST GROUPS \* \* \* - LOCAL GROUPS

38209 094 CO-NATURE M  
MR. BRADLEY ALAN RUSH ESQ.  
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101 BELTON ROAD  
SILVER SPRING, MD 20901  
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18097 094 DC PRESERVA M  
MS. JACQUELINE V. PRIOR  
EXECUTIVE DIRECTOR  
DC PRESERVATION LEAGUE  
1511 K STREET, N.W.  
SUITE 739  
WASHINGTON, DC 20004

18098 094 DCHISSOC M  
MR. JOHN ALVITI  
HISTORICAL SOCIETY OF WASHINGTON, D.C.  
1307 NEW HAMPSHIRE AVE., NE.  
WASHINGTON, DC 20036  
(202) 785-2068

## ANNEX E-2

### MEMORANDUM OF AGREEMENT

among the

Maryland Department of Natural Resources  
Virginia Department of Game and Inland Fisheries  
Government of the District of Columbia  
Interstate Commission on the Potomac River Basin  
Potomac River Fisheries Commission  
U.S. Army Corps of Engineers  
U.S. Fish and Wildlife Service  
National Biological Service  
U.S. Environmental Protection Agency  
National Park Service  
NOAA National Marine Fisheries Service and  
Montgomery County, Maryland  
on

### LITTLE FALLS DAM FISH PASSAGE

#### I. PURPOSE

This Memorandum of Agreement (Agreement) establishes a general framework for cooperation and participation among the Maryland Department of Natural Resources, the Virginia Department of Game and Inland Fisheries, the Government of the District of Columbia, the Interstate Commission on the Potomac River Basin, the Potomac River Fisheries Commission, the U.S. Army Corps of Engineers, the U.S. Fish and Wildlife Service, the National Biological Service, the U.S. Environmental Protection Agency, the National Park Service, the NOAA National Marine Fisheries Service, and Montgomery County, Maryland, in reestablishing migratory and anadromous fish access and restoring a migratory fish population in an historic spawning habitat upstream of Little Falls Dam on the Potomac River in Montgomery County, Maryland. Collectively, the parties to the Memorandum of Agreement will be referred to as Cooperators.

#### II. BACKGROUND

Little Falls Dam is located in the Potomac River 2 miles upstream from the District of Columbia. Constructed in 1959, the Dam is owned and operated by the U.S. Army Corps of Engineers and is used to divert water from the river for some of the water supply needs of the District of Columbia and parts of northern Virginia and Maryland. A fish passageway (fishway) over the Little Falls Dam was constructed in 1959, but failed to pass fish due to

design and location flaws. Since its construction, the Dam has blocked fish migrations of American and hickory shad, striped bass and white perch from 10 miles of spawning and nursery habitat up to Great Falls, the historic natural boundary to migration.

This agreement formalizes an ongoing multi-agency effort to provide a functioning passageway for migratory and anadromous fish to migrate past the Little Falls Dam. Establishing fish passage at Little Falls will meet several specific commitments made by state and Federal agencies and other groups:

- The Executive Council of the Chesapeake Bay Program signed *Directive 93-4* on September 15, 1993, formalizing the Fish Passage Goals Policy which specifies a five-year target for opening 582 river miles in major tributaries of the Chesapeake Bay to fish passage. The Executive Council is the top policy making body of the Chesapeake Bay Program, and is made up of the governors of Maryland, Virginia and Pennsylvania, the mayor of the District of Columbia, the Administrator of the U.S. Environmental Protection Agency, and the chair of the Chesapeake Bay Commission.
- Twenty-three Federal and regional agencies, 3 states, the District of Columbia, and the Chesapeake Bay Commission signed the *Agreement of Federal Agencies on Ecosystem Management in the Chesapeake Bay* on July 14, 1994. The signatories agreed to support full implementation of the Chesapeake Bay Program's Habitat Restoration Strategy and related plans by providing technical assistance in fish passage design, providing stock for restoring newly opened spawning habitat, and determining needs for restoring upstream spawning habitat.
- Fulfillment of this agreement will also promote the purposes of the Potomac Vision and Coastal America.

### III. AGREEMENT

The Cooperators will appoint representatives to a Little Falls Fish Passage Task Group (Task Group) that will promote and coordinate efforts to (1) reestablish migratory fish access to habitat upstream of Little Falls Dam through design and construction of a fish passage at Little Falls Dam, (2) monitor the migratory fish populations in the Potomac River near Little Falls Dam, (3) restore the migratory fish population by stocking migratory fish species in the Potomac River upstream of Little Falls Dam, and (4) pursue funding of Task Group restoration activities through the use of agency authorities and programs.



IT IS MUTUALLY AGREED AND UNDERSTOOD BY AND AMONG THE COOPERATORS THAT:

A. Specific work projects or activities that involve the transfer of funds, services or property among the Cooperators will require the execution of separate agreements or contracts, contingent upon the availability of funds. Each subsequent agreement or arrangement involving the transfer of funds, services, or property among the Cooperators must comply with all applicable federal, state, and local statutes and regulations, including those statutes and regulations applicable to procurement activities, and must be independently authorized by appropriate statutory authority.

B. This MOA in no way restricts the Cooperators from participating in similar activities or arrangements with other public or private agencies, organizations, or individuals.

C. Nothing in this MOA shall obligate the Cooperators to expend appropriations or enter into any contract or other obligations.

IV. AUTHORITIES

The agencies enter into this Agreement under the authority of the Fish and Wildlife Coordination Act (16 U.S.C. 661 et seq.), the Anadromous Fish Conservation Act (16 U.S.C. 757a et seq.) and the Magnuson Fishery Conservation and Management Act (16 U.S.C. 1801 et seq.).

V. DISCLAIMER

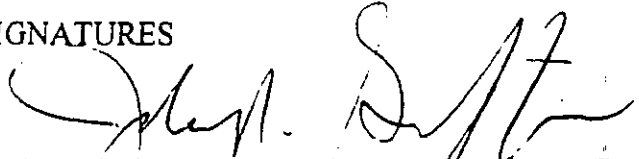
Nothing in this agreement diminishes the independent authority or coordination responsibility of each agency in administration of its statutory obligations, nor does it financially incur any cooperator beyond agreements made under mutual consent. It is intended to facilitate authorities and financial support through the cooperative mechanisms of the Task Group.

This MOA is not intended to, nor does it create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity by a party against the Task Group, its agencies, its officers, or any person.

## VI. DURATION

This Memorandum of Agreement becomes effective on the date of signature by all parties. It may be modified or amended upon written request of any party hereto and the subsequent written concurrence of all the Cooperators. Cooperator participation in this MOA may be terminated with the 60-day written notice of any party to the other Cooperators. Unless terminated under the terms of this paragraph, this MOA will remain in full force for the duration of the project.


VII. SIGNATURES

  
Secretary, Maryland Department of Natural Resources

Secretary, Virginia Department of Game and Inland Fisheries

Mayor, Government of the District of Columbia

  
Executive Director, Interstate Commission on the Potomac River Basin

  
Executive Secretary, Potomac River Fisheries Commission

District Engineer, U.S. Army Corps of Engineers, Baltimore District

Regional Director, U.S. Fish and Wildlife Service

Regional Director, National Biological Service

Regional Administrator, U.S. Environmental Protection Agency

Regional Director, National Park Service

Regional Director, NOAA National Marine Fisheries Service

County Executive, Montgomery County, Maryland

## ANNEX E-3



DEPARTMENT OF THE ARMY  
BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS  
P.O. BOX 1715  
BALTIMORE, MD 21203-1715

August 10, 1995

Planning Division

Ms. Erika J. Hieber  
U.S. Army Corps of Engineers  
Baltimore District  
ATTN: CENAB-PL-PR  
P.O. Box 1715  
Baltimore, Maryland 21203

Dear Ms. Hieber:

The U.S. Army Corps of Engineers, Baltimore District, has initiated a Section 1135 project modification study for the existing migratory fish passage at Washington Aqueduct's Little Falls Dam in Montgomery County, Maryland. A map and factsheet describing the proposed modifications are enclosed for your information.

The purpose of this correspondence is to solicit your agency's comments regarding the environmental aspects of the proposed modification. Environmental investigations for the study will focus on the identification and evaluation of the proposed modifications. Emphasis will be placed on the effects on fish and wildlife resources, water supply, boating safety, recreation, aesthetics, and cultural resources. Specific items to be addressed include, but are not limited to the following:

- (1) The existing and with-project conditions of the aquatic habitat above and below the Little Falls Dam including water quality, water velocities and temperatures, silt and turbidity, toxic and dissolved oxygen levels, food production, and spawning conditions for the anadromous species of the Potomac River;
- (2) The impacts of the modification on the C&O Canal rubble dam and the proposed decrease in diversion of water to the C&O Canal;
- (3) Minimizing temporary impacts resulting from construction access and restoration of affected areas following construction; and
- (4) The impacts of the modification and construction activities on public safety for the river and adjacent lands.

This information will be incorporated into the environmental assessment being prepared as part of the feasibility study.

To assist us in identifying environmental issues that may affect the design or implementation of the modification, it is requested that you provide appropriate comments concerning interests within your agency's area of responsibility within 30 days of the date of this letter. In addition, we request that you identify a point of contact within your agency for further coordination. Your response will be greatly appreciated.

-2-

This letter has been sent to the Federal, state and local agencies that would have interest in the proposed project. Your response to this request will ensure that your particular concerns are addressed and taken into consideration during the plan formulation and evaluation process.

If you have any questions on this matter, please feel free to call me or have your staff contact the study manager, Ms. Erika Hieber, at (410) 962-8154.

Sincerely,

*Harold L. Nelson*  
for James F. Johnson  
Chief, Planning Division

Enclosures

SUBJECT: Fish Passage at Little Falls Dam, Potomac River

## FACT SHEET

1. PURPOSE: To provide information on the Section 1135 investigation of Little Falls Dam.

2. FACTS:

a. Authority. Little Falls Dam, constructed for water supply to Washington, D.C. was authorized in the Conference Report on the District of Columbia Appropriation Bill, 1957, (Report No. 2484, 84th Congress, 2nd Session). This authorization included construction of a fishway to provide upstream access for anadromous fish. The dam and fishway were constructed in 1959 using the best design of the U.S. Fish and Wildlife Service (USFWS) available at that time.

b. Problem. The existing fishway at Little Falls Dam was never successful. It was monitored for several years, after which time, maintenance ceased. Currently, Little Falls Dam blocks fish passage to approximately 10 of the original 15 miles of spawning and nursing grounds for anadromous fish, specifically American shad, hickory shad, alewife, striped bass, white perch, and blueback herring. In recent years, the Potomac fishery has undergone a marked decline. In an effort to help restore the fishery, a fish passage at Little Falls Dam was incorporated into a Corps of Engineers permit in 1987 as mitigation for the Port America development on the Potomac River, Maryland. However, development of Port America has been suspended indefinitely.

c. Current Modification Initiative. The Baltimore District was approached informally in the summer of 1992 by representatives of the Interagency Chesapeake Bay Program and the State of Maryland to consider alternatives for fish passage at Little Falls Dam. In December 1994, the Maryland Department of Natural Resources formally requested a Section 1135 investigation. A supplement to the letter was sent in April 1995. Interagency activities that are being coordinated with the Section 1135 investigation include hydrographic and topographic surveys, modeling, and fish stocking and monitoring. In order to assure proper design and placement of a fish passage, a physical model was constructed and tested by the S. O. Conte Anadromous Fish Research Center under contract with the USFWS. Based on model testing results, a notch and labyrinth weir configuration was recommended. Interagency activities are being coordinated through the Little Falls Fish Passage Task Force.

d. Funding. The estimated cost of the anticipated modifications for fish passage at Little Falls Dam is approximately \$1.5 million. The Baltimore District received \$100,000 to initiate a Section 1135 feasibility study for Little Falls Dam in May 1995. The feasibility study cost is expected to total \$200,000.

e. Status. The feasibility study was initiated in May 1995. A feasibility report is expected to be completed in March 1996. Construction is scheduled to be initiated in August 1997.

Prepared by: Erika J. Hieber  
Project Development Branch

Authenticated by:

*Harold W. Nelson*  
JAMES F. JOHNSON  
Chief, Planning Division

4 August 1995

